# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 10/15/2021 09:00 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 06/17/2021 10:50 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 12757 | Expiration Date: | 06/30/2022 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 123381 | -2 | 1.60 | 123298 | 1.62 |
| Blue | F | SSC | 125000 | 122693 | -2 | 2.21 | 123011 | 2.08 |
| Blue | E | FITC | 13131 | 12622 | -4 | 2.22 | 290 | 15.34 |
| Blue | D | PE | 24112 | 23587 | -3 | 1.63 | 540 | 10.59 |
| Blue | B | PerCP-Cy5-5 | 31295 | 30431 | -3 | 2.95 | 1005 | 14.55 |
| Blue | A | PE-Cy7 | 19939 | 19407 | -3 | 5.13 | 516 | 29.57 |
| Red | C | APC | 42122 | 40819 | -4 | 2.92 | 1712 | 11.38 |
| Red | A | APC-Cy7 | 22340 | 21705 | -3 | 3.09 | 811 | 11.61 |
| Violet | B | V450 | 7410 | 7026 | -6 | 3.44 | 422 | 12.32 |
| Violet | A | V500 | 28118 | 27044 | -4 | 3.01 | 674 | 9.59 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 22796 | 1.62 | 573 | 4 | N/A | N/A | Pass |
| Blue | F | SSC | 57275 | 1.08 | 518 | 6 | N/A | N/A | Pass |
| Blue | E | FITC | 54 | 50.72 | 485 | -2 | 0.0402 | 0 | Pass |
| Blue | D | PE | 114 | 37.07 | 488 | 0 | 0.4657 | 366 | Pass |
| Blue | B | PerCP-Cy5-5 | 187 | 36.22 | 584 | -2 | 0.0199 | 80 | Pass |
| Blue | A | PE-Cy7 | 103 | 67.95 | 626 | -2 | 0.0211 | 0 | Pass |
| Red | C | APC | 398 | 24.10 | 578 | 2 | 0.0281 | 210 | Pass |
| Red | A | APC-Cy7 | 182 | 27.86 | 554 | 3 | 0.0064 | 1242 | Pass |
| Violet | B | V450 | 60 | 62.43 | 457 | 4 | 0.0688 | 2554 | Pass |
| Violet | A | V500 | 97 | 33.84 | 469 | 4 | 0.0280 | 928 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 10/15/2021 09:00 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 06/17/2021 10:50 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.97 - 71.95 | N/A | N/A | -31.51 | -31.42 | 1.06 |
| Blue | 20.36 | 16.28 - 24.42 | 1.29 | 1.02 - 1.52 | 0.00 | 0.00 | 1.43 |
| Red | 15.04 | 13.60 - 20.40 | N/A | N/A | 29.89 | 30.05 | 1.22 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.76

## Threshold

Threshold (FSC): 15599

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments